COURSE NAME: CERAMICS II COURSE CODE: IFA 2115 Course Description

Design stressing the interrelation between concept development, design materials tools, equipment, techniques and methods of ceramic production for artists and industrial. Firing and glazing methods and techniques, practical projects based on design concepts for utilitarian and decorative ceramics.

Course outline

Week 1: Design in ceramics

- Theory and practice in ceramics
- Understanding design principles in ceramics. Good quality ceramics design judgment.
- Contemporary ceramics design issues e.g. Drawing for ceramics, selection of Ceramics materials, inspiration for ceramics, characteristics of clays.
- Clay formulae i.e. stoneware, porcelain

Week 2: Studio ceramics equipment

- Studio practice, ceramics production methods and techniques
- Milling materials i.e. ball milling, pug milling, clay filtering, clay extruding

Week 3: Intermediate Wheel Throwing

- Throwing basic cylinders, swelling and collaring, throwing flat wares, making bowls, throwing large forms.
- Production of studio tableware - i.e. making and fitting lips, making handles, knobs, spouts and foot.
- Composite thrown forms
- Creative and innovative wheel thrown forms

Week 4: Designing and planning ceramics for functional use

- Process of creating ceramic forms
- Designing for practical fitness
- Unity and variety
- Good proportion for functional ceramics
- Balance in Design
- Planning a piece of functional ceramics
- Suitability of design for material.
- Developing a pattern for functional ceramics
- Making a template for ceramic forms
- Planning forms to meet definite needs

Week 5: Project on utilitarian ceramic forms

- Making a tea set
- Making a Coffee set
- Making a Dinner set
- Field survey on functional ceramics on market
- Basic principles in making functional ceramic products
- Rules for judging practical fitness

Week 6: Applying Decorative Designs on Functional ceramics

- Placing the decorative design motifs
- Sources for Design motifs e.g. nature, man-made
- Adapting of design motif to ceramic form and material
- Planning a decorative design
- Transferring the design to the clay
- Reflection on the traditional designs
- Contemporary approaches to design motifs

Week 7: Ceramics Decoration

- Safety in the use of ceramics chemicals and substances
- Decorative methods and techniques i.e. decorating plastic clay wares
- Decorating bone dry clays ware i.e. industrial preparation of colours, colour application
- Decorating biscuit fired clay wares
- Traditional decorative techniques versus studio/industrial methods **Week 8: Student's independent project on Ceramic Decoration**

- Explore decoration for variety of forms
- Consider the scale, or relative sizes of the design motifs
- Design the motif to fit form, spot or object
- Design the motif to suit material and process

Experiment with other ways of design motif.

Week 9: Student Exhibition for critique

- Student display their work for class critique
- Students present their findings

Week 10: Mass Production in Ceramics

- Ceramics mass production in studio environments
- Mass production in industrial setting
- Quality control in mass production

Week 11: Mass Production using Hand-made methods e.g. coils and slabs

- Studio mass production for a self reliant potter/ceramic artist
- Mass production using coil methods
- Mass production using slab methods
- Production using a combination of hand and mechanical methods
- Surface treatment of mass produced forms

Week 12: Firing Ceramics

- Safety Procedures in firing
- Fuels for firing ceramics
- Kiln operating and control i.e. kiln furniture and care
- Packing and stacking the kiln i.e. dos and don'ts
- Firing faults and their remedy
- Kiln care and repair

Week 13: Intermediate Glazing

- Glaze preparation e.g. making own glaze
- Glaze recipes i.e. theory and practice
- Glaze calculations
- Glaze application methods i.e. studio and industrial
- Glaze fritting
- Glaze defects

Week 14: Ceramics Practical Project(s)

- Individual practical projects on utilitarian ware

Week 15: Practical Project (continued)

- Individual practical project on decorative ware
- Explore garden , compound and monumental ceramics

Week 16 & 17

University Examinations

Learning outcomes

The student will be capable of producing various "creative and technical drawing for both functional and decorative ceramic forms.

The students will be able to explore the limitation and possibilities of various studio/industrial material and techniques.

The students will be competent in designing and making function ceramic forms especially table wares.

The students will be able to enhance their capacity in formulating glaze batches for specific firing temperatures and effects.

Methods of Teaching and Delivery

- Studio Demonstration, instruction and technical inputs
- Lectures
- Practical studio work and experiments
- Group discussion/presentation/critique
- Self directed studio assignment/project and course works
- Visual research and image collection
- Field visits

Mode of Assessment

Course work 40%

- Planning and Developmental studies/sketches 10%
- Execution of the practical work (Reasonable body of work) 20%
- Tests in theory based on ceramic technology 10% End of semester Examination: 60%
- Theory examination: 20%
- Practical examination: 40% Final total work: 100%

References/Learning materials

Berger John, (1989) Ways of Seeing, London: British Broadcasting Corporation

Block, J and Atterberry, G (1999) Design Essentials. 2nd Edition, Englewood; NJ Prentice Hall

Dormer, P (1987) New Ceramics: Trends and Traditions,

Earl D (1999) Ceramics Decoration: Step by Step,

Norsker, H and Danish J (199?) Forming Techniques for self-reliant potter, Peter Lane, (1998) Ceramic form: Design and Decoration, London: A&C Black Rhodes, D (1987) Glazes for the Craft potter,

Sayrem H M (1999) Writing about art, 3rd Edition, Upper Saddle River: Prentice Hall Wong, Wucius (1993) Principles of form and design, New York: Van Nostrand Reinhold